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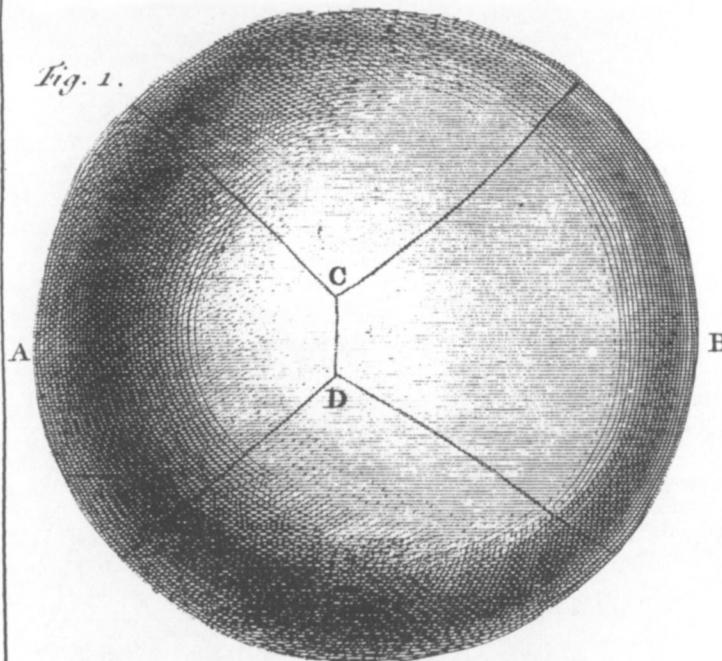
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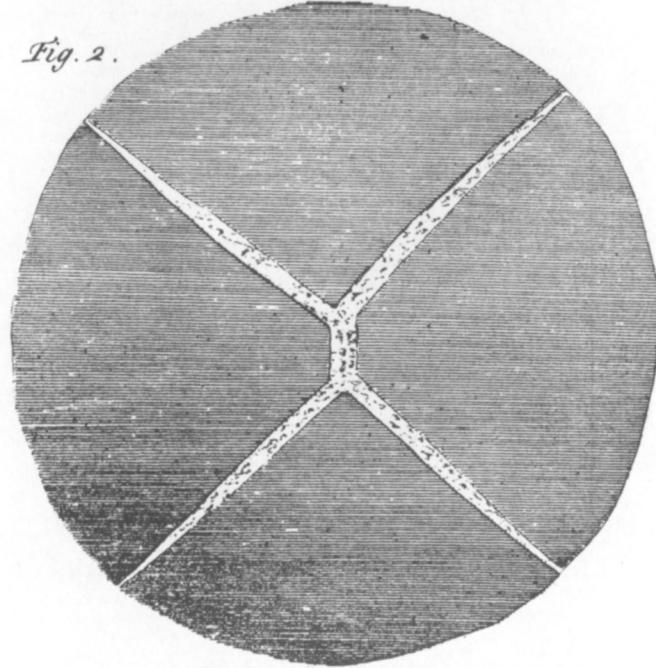
*Fig. 1.*



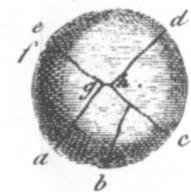
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*Fig. 2.*

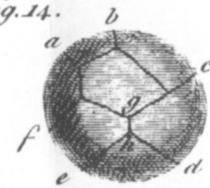


*Fig. 13.*



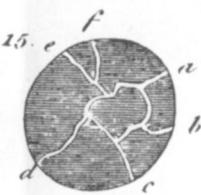
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*Fig. 14.*



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*Fig. 15.*



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*Fig. 16.*



*Fig. 3.*





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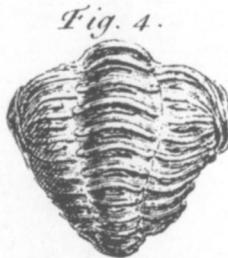
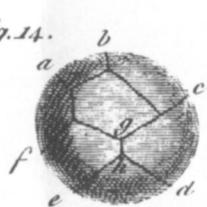


Fig. 4.

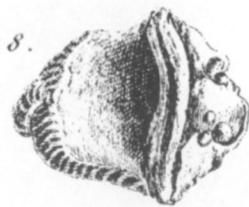
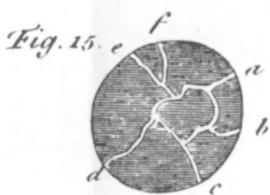


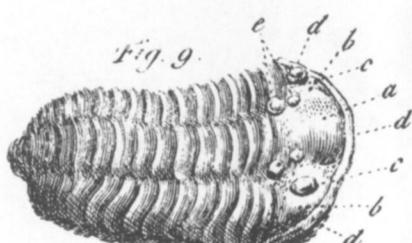
Fig. 8.



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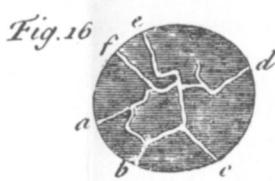
Fig. 5.



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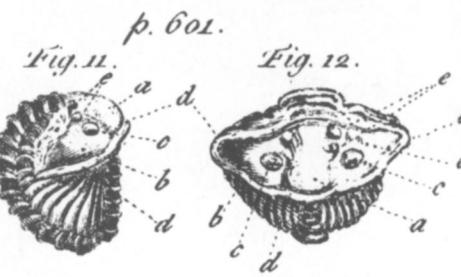
Fig. 10.



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Fig. 6.



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Fig. 12.

## ADDENDA to the preceding Paper.

*Extract of a Letter from the Rev. Dr. Lyttelton  
to C. Mortimer, Secret. R. S.*

THE Rev. Dr. Shaw, of Oxford, has procured a Specimen of the extended *Eruca*. As the Fossilists differ'd in their Opinion of this *Dudley Fossil*, some pronouncing it an *Eruca*, others a *Bivalve*, I thought it best to leave the Reader to judge for himself from the Engravings; but, as we are now able to add a Specimen of this Fossil in an extended Posture, there is a better Pretence to call it an *Eruca*. See TAB. I. Fig. 6. 7. and 8.

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XV. *Some further Account of the before-men-  
tion'd Dudley Fossil, by the Editor of these  
Transactions.*

THE Rev. Dr. Pocock, F. R. S. was so obliging as to send several Specimens of this Fossil to the *President*; who put them into my Hands, and desired me to draw up an Account of them to be annexed to the preceding Paper.

The first Specimen is a Mass of Stone containing the Face and Eyes, with some Rudiments of Legs on the Sides; but the Back is intirely broken away. Another Specimen contains the Head only: A third, the Head, and Part of the Back, but greatly distorted. But the most beautiful and complete are the two which

which I caused to be drawn and engraven in TAB. I. at *Fig. 9, 10, 11, 12.*

At *Fig. 9.* is one of these Insects completely extended at its whole Length; wherein it appears, that the Head is cover'd with a Shell or Crust consisting of three Parts; the middle Part is broad and round, *a.* which I shall therefore call the Nose: The two side Pieces are of a triangular Form, *b. b.* in each of which is situate a large protuberant Eye, *c. c.* The anterior Part of the Whole is encompassed by a round Border, *d. d. d.* which looks like an upper Lip; tho' I do not take it to be so; but that the Mouth is situate lower down, as in the Crab-kind, and does not appear in any of the Specimens I have yet seen. On each Side the Crown of the Head, towards the back Part of it, are two small Knobs, *e. e.* At *f. f.* in *Fig. 10.* appear some Traces of Feet, which seem to lie under the Belly: But, as the Belly, or under Side, was not distinct, not being cleared from its stony and earthy Matter, I could not discern any other Legs.

It is most likely the whole Back of this Creature was, when alive, cover'd with a Case, or undivided *Elytrum*, as is the *Scolopendra aquatica scutata*, described in these *Transactions*, n. 447. p. 150, and 153. by M. *Klein*, of *Dantzick*; and afterwards by the Rev. Mr. *Littleton Brown*, both worthy Members of this Society. M. *Klein* says, the Case was whole; and that he was forced to slit it open to shew the Back underneath; when it appears, that the Body was trilobated, as in *Fig. 9.* The Case, being very thin and tender, may probably have been broken

ken off at the Death of the Animal, before its being petrified.

Mr. *Brown* does not mention in his Insect the Property of rolling itself up, which this certainly had; as appears by several of the Figures, as *Fig. 3, 4, 5, 7, 11, and 12*, which are entirely rolled up; and as is more particularly represented by *Fig 11 and 12*. in which it appears, that the Tail is turn'd up under the Belly quite to the Mouth; and at *Fig. 8.* the Creature seems but half-rolled up.

I have consulted all the Books I could meet with, which give Figures of Insects and crustaceous Animals in their natural and petrified States; and find none resemb'c this *Dudley Fossil* so near as M. *Klein's* Insect; therefore I shall, till we get more Information, call it, *Scolopendræ aquatice scutatae affine animal petrifactum.*

XVI. *The Description and Figures of a small flat spheroidal Stone, having Lines formed upon it; by C. Mortimer, M. D. & Secret.*  
R. S.

**M**R. *Peter Collinson*, a very worthy Member of the *Royal Society*, produced, at a Meeting of that Body, on Nov. 8. 1750. a very curious spheroidal Stone, about 4 Inches Diameter, of a Chocolate-colour, marked with 4 white Lines, about the Breadth of a Horse-hair, encompassing the whole Stone, like the Meridians on a Globe; but, instead of crossing one another in a Point, as they do, upon the Globe, these are connected by a short transverse Line; as is described above in p. 535 of this